

Environmental Protection Agency
Pt. 60, Subpt. Ec, Table 1B

Pollutant	Units (7 percent oxygen, dry basis)	Emissions limits			Averaging time ¹	Method for demonstrating compliance ²		
		HMIWI size						
		Small	Medium	Large				
Mercury	Milligrams per dry standard cubic meter (grains per thousand dry standard cubic feet) or percent reduction.	0.55 (0.24) or 85%.	0.55 (0.24) or 85%.	0.55 (0.24) or 85%.	3-run average (1-hour minimum sample time per run).	EPA Reference Method 29 of appendix A-8 of part 60.		

¹ Except as allowed under § 60.56c(c) for HMIWI equipped with CEMS.

² Does not include CEMS and approved alternative non-EPA test methods allowed under § 60.56c(b).

[74 FR 51414, Oct. 6, 2009, as amended at 76 FR 18414, Apr. 4, 2011]

TABLE 1B TO SUBPART EC OF PART 60—EMISSIONS LIMITS FOR SMALL, MEDIUM, AND LARGE HMIWI AT Affected FACILITIES AS DEFINED IN § 60.50C(a)(3) AND (4)

Pollutant	Units (7 percent oxygen, dry basis)	Emissions limits			Averaging time ¹	Method for demonstrating compliance ²		
		HMIWI size						
		Small	Medium	Large				
Particulate matter.	Milligrams per dry standard cubic meter (grains per dry standard cubic foot).	66 (0.029) ...	22 (0.0095)	18 (0.0080) ...	3-run average (1-hour minimum sample time per run).	EPA Reference Method 5 of appendix A-3 of part 60, or EPA Reference Method M 26A or 29 of appendix A-8 of part 60.		
Carbon monoxide.	Parts per million by volume.	20	1.8	11	3-run average (1-hour minimum sample time per run).	EPA Reference Method 10 or 10B of appendix A-4 of part 60.		
Dioxins/furans.	Nanograms per dry standard cubic meter total dioxins/furans (grains per billion dry standard cubic feet) or nanograms per dry standard cubic meter TEQ (grains per billion dry standard cubic feet).	16 (7.0) or 0.013 (0.0057).	0.47 (0.21) or 0.014 (0.0061).	9.3 (4.1) or 0.035 (0.015).	3-run average (4-hour minimum sample time per run).	EPA Reference Method 23 of appendix A-7 of part 60.		
Hydrogen chloride.	Parts per million by volume.	15	7.7	5.1	3-run average (1-hour minimum sample time per run).	EPA Reference Method 26 or 26A of appendix A-8 of part 60.		
Sulfur dioxide	Parts per million by volume.	1.4	1.4	8.1	3-run average (1-hour minimum sample time per run).	EPA Reference Method 6 or 6C of appendix A-4 of part 60.		
Nitrogen oxides.	Parts per million by volume.	67	67	140	3-run average (1-hour minimum sample time per run).	EPA Reference Method 7 or 7E of appendix A-4 of part 60.		
Lead	Milligrams per dry standard cubic meter (grains per thousand dry standard cubic feet).	0.31 (0.14)	0.018 (0.0079).	0.00069 (0.00030).	3-run average (1-hour minimum sample time per run).	EPA Reference Method 29 of appendix A-8 of part 60.		
Cadmium	Milligrams per dry standard cubic meter (grains per thousand dry standard cubic feet).	0.017 (0.0074).	0.0098 (0.0043).	0.00013 (0.000057).	3-run average (1-hour minimum sample time per run).	EPA Reference Method 29 of appendix A-8 of part 60.		

Pt. 60, Subpt. Ec, Table 2

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Pollutant	Units (7 percent oxygen, dry basis)	Emissions limits			Averaging time ¹	Method for demonstrating compliance ²		
		HMIWI size						
		Small	Medium	Large				
Mercury	Milligrams per dry standard cubic meter (grains per thousand dry standard cubic feet).	0.014 (0.0061).	0.0035 (0.0015).	0.0013 (0.00057).	3-run average (1-hour minimum sample time per run).	EPA Reference Method 29 of appendix A-8 of part 60.		

¹ Except as allowed under § 60.56c(c) for HMIWI equipped with CEMS.

² Does not include CEMS and approved alternative non-EPA test methods allowed under § 60.56c(b).

[74 FR 51414, Oct. 6, 2009, as amended at 76 FR 18414, Apr. 4, 2011]

TABLE 2 OF SUBPART EC TO PART 60—TOXIC EQUIVALENCY FACTORS

Dioxin/furan congener	Toxic equivalency factor
2,3,7,8-tetrachlorinated dibenz-p-dioxin	1
1,2,3,7,8-pentachlorinated dibenz-p-dioxin	0.5
1,2,3,4,7,8-hexachlorinated dibenz-p-dioxin	0.1
1,2,3,7,8,9-hexachlorinated dibenz-p-dioxin	0.1
1,2,3,6,7,8-hexachlorinated dibenz-p-dioxin	0.1
1,2,3,4,6,7,8-heptachlorinated dibenz-p-dioxin	0.01
Octachlorinated dibenz-p-dioxin	0.001
2,3,7,8-tetrachlorinated dibenzofuran	0.1
2,3,4,7,8-pentaclorinated dibenzofuran	0.5
1,2,3,7,8-pentaclorinated dibenzofuran	0.05
1,2,3,4,7,8-hexachlorinated dibenzofuran	0.1
1,2,3,6,7,8-hexachlorinated dibenzofuran	0.1
1,2,3,7,8,9-hexachlorinated dibenzofuran	0.1
2,3,4,6,7,8-hexachlorinated dibenzofuran	0.1
1,2,3,4,6,7,8-heptachlorinated dibenzofuran	0.01
1,2,3,4,7,8,9-heptachlorinated dibenzofuran	0.01
Octachlorinated dibenzofuran	0.001

TABLE 3 TO SUBPART EC OF PART 60—OPERATING PARAMETERS TO BE MONITORED AND MINIMUM MEASUREMENT AND RECORDING FREQUENCIES

Operating parameters to be monitored	Minimum frequency		Control system		
	Data measurement	Data recording	Dry scrubber followed by fabric filter	Wet scrubber	Dry scrubber followed by fabric filter and wet scrubber
Maximum operating parameters:					
Maximum charge rate	Continuous	1×hour	✓	✓	✓
Maximum fabric filter inlet temperature.	Continuous	1×minute	✓	✓
Maximum flue gas temperature.	Continuous	1×minute	✓	✓	
Minimum operating parameters:					
Minimum secondary chamber temperature.	Continuous	1×minute	✓	✓	✓
Minimum dioxin/furan sorbent flow rate.	Hourly	1×hour	✓	✓
Minimum HCl sorbent flow rate.	Hourly	1×hour	✓	✓
Minimum mercury (Hg) sorbent flow rate.	Hourly	1×hour	✓	✓
Minimum pressure drop across the wet scrubber or minimum horsepower or amperage to wet scrubber.	Continuous	1×minute	✓	✓
Minimum scrubber liquor flow rate.	Continuous	1×minute	✓	✓
Minimum scrubber liquor pH.	Continuous	1×minute	✓	✓